



# AP-GS3000

## Multi-Port GSM Gateway

High Performance GSM Gateway Solution

### New Features Overview



**AddPac**

AddPac Technology

Sales and Marketing

[www.addpac.com](http://www.addpac.com)

# Contents

- ? Multi-Port Setting for GSM Dial Plan
- ? Prepaid USSD
- ?  $ASR$  (Answer Seizure Ratio) /  $ACD$  (Average Call Duration)
- ? Radius Protocol for CDR





# Multi-Port Setting for GSM Dial Plan

# Multi Port Setting for GSM Dial Plan

Prefix Table  
It supports to Multi port setting for GSM Port

Smart Web Manager  
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**System**

- Language
- WAN Setup
- LAN Setup
- NAT

**Advanced**

- Protocol
- Server SIP
- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension
- FXO Extension
- GSM Extension
- E1/T1 Extension
- DTMF/CODEC
- VoIP Dial Plan
- FXO Dial Plan
- GSM Dial Plan**
- Static Route
- Hot Line

**Miscellaneous**

- Port & Call Status

**GSM Dial Plan / Prefix**

**Port Information**

Port	P0	P1	P2	P3	P4	P5	P6	P7
SLOT 0	GSM	GSM	GSM	GSM				
SLOT 1								
SLOT 2								
SLOT 3								
SLOT 4								
SLOT 5	FXS	FXS	FXS	FXS	FXO	FXO	FXO	FXO
SLOT 6								
SLOT 7								
SLOT 8								

**Plan Table**

Rule Num	Digits to Insert	Digits to delete	Digit Pattern	Control
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Delete"/> <input type="button" value="Add"/>

**PREFIX Table**

Pots Num	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
<input type="text"/>	<input type="text"/>	<input type="text"/>	N.A.	From: P0:0 To: P0:0	<input type="button" value="Delete"/> <input type="button" value="Apply"/>

\* GSM Dial Plan - Assigned Translation-Rule Tag Number : 300 - 399  
\* GSM Dial Plan - Assigned VoIP Tag Number : 4584 - 4683

**Information**

AddPac Technology  
Model : GS3000\_G2  
HW Version : 2.0  
SW Version : 8.51.001  
Smart Web Version : 0.4  
Smart Web Build : Sep 29 2010

**Voice Interface**

G(4) : None : None : None :  
None : S(4)O(4) : None :  
None : None

Protocol : SIP  
Status : Unregistered  
Current Calls : 0  
CallNetwork : Static  
172.17.110.211  
Mac Address : 0002.a4ff.fe30  
Unread Message:  
P0:0(0)  
P0:1(0)  
P0:2(0)  
P0:3(0)

**Description**

Hot Line Setup

# Multi Port Setting for GSM Dial Plan

Before

Index	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
0	T		N.A.	0/0	<input type="checkbox"/>
1	9	T	N.A.	0/0	<input type="checkbox"/>
0			N.A.	P0:0	Delete
					Apply

Before  
It supported single port setting only.

After

Pots Num	Prefix	2nd Prefix	PlanIndex	Slot/Port	Control
			N.A.	From : P0:0 To : P0:0	Delete
					Apply

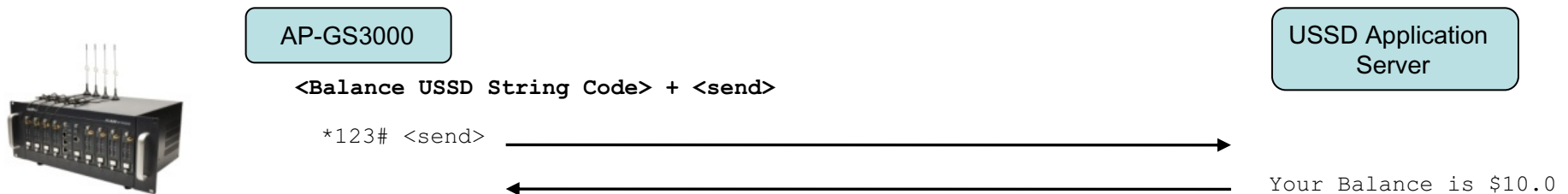
After  
It supports multi port setting now.



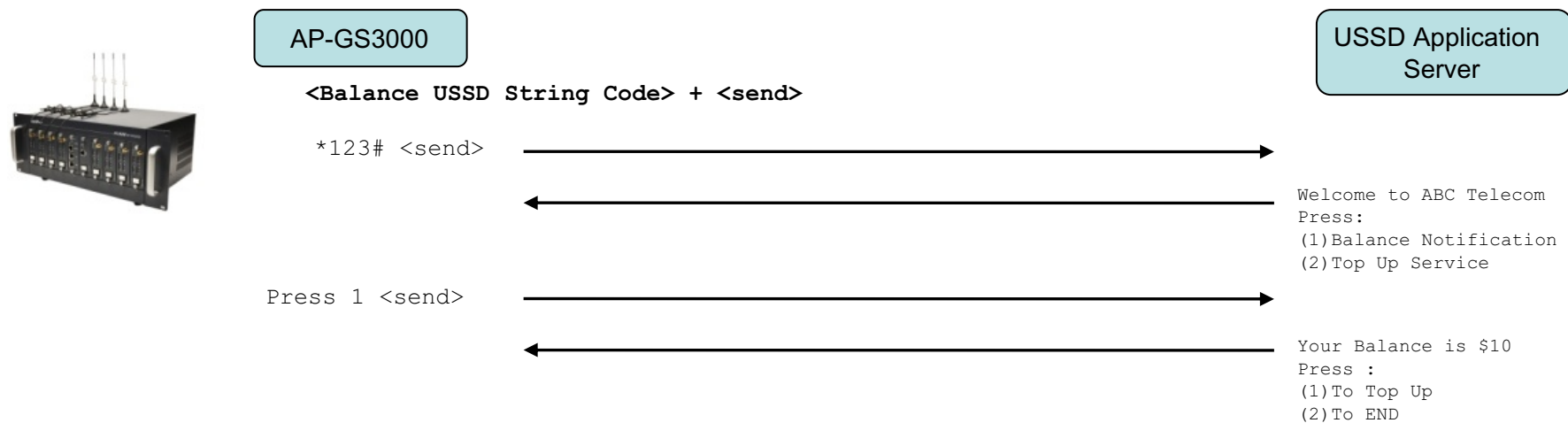
# Prepaid USSD

# Prepaid Balance USSD

## Balance Checking Service Type ? 1



## Balance Checking Service Type - 2



# Prepaid Balance USSD

**Global Balance USSD String**  
It input Balance USSD String Code

- NAT
- NTP
- System Time
- File Browser

**Set Port Group / Time**  
It sets send times of USSD String about each port.

- Server H.323
- SIP Registration
- H.323 Registration
- E1/T1 Trunk
- FXS Extension

**Checking Port**  
It selects your wanted ports or all ports

- FXO DialPlan
- GSM Dial Plan
- Static Route
- Hot Line

**Mode**  
It selects USSD Mode between Balance and Recharging.

- Service
- Filtering

**USSD Reply**  
Balance checking message

- Port & Call Status
- System Status
- GSM Status
- GSM Call Statistics
- Call Log
- System Log
- Pin

### GSM USSD

Balance checking USSD String : \*222# Send Send Time : -1 (sec) Save

Recharging USSD string : \*111\*

Set Port Group / Time : 4 (Port Group) 1100 (ms)

Port	Mode	Data Code	USSD Reply	Reply Date
<input type="checkbox"/> P0:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		<span style="color: green;">Send</span>	2010/09/29 22:00:53
<input type="checkbox"/> P0:1	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		<span style="color: green;">Send</span>	2010/09/29 22:00:56
<input type="checkbox"/> P0:2	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		<span style="color: green;">Send</span>	2010/09/29 22:00:56
<input type="checkbox"/> P0:3	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		<span style="color: green;">Send</span>	2010/09/29 22:02:15
<input type="checkbox"/> P1:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		<span style="color: green;">Send</span>	2010/09/29 22:00:58
<input type="checkbox"/> P1:1	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		<span style="color: green;">Send</span>	2010/09/29 22:01:13
<input type="checkbox"/> P1:2	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		<span style="color: green;">Send</span>	2010/09/29 22:00:58
<input type="checkbox"/> P1:3	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging		<span style="color: green;">Send</span>	2010/09/29 22:00:59

**Information**

AddPac Technology  
Model : GS3000\_G2  
HW Version : 2.0  
SW Version : 8.51.001  
Smart Web Version : 0.4  
Smart Web Build : Sep 15 2010

Voice Interface  
G(4) : G(4) : G(4) : G(4) :  
None : G(4) : G(4) : G(4) : G(4)

Protocol : H.323  
Status : Unregistered  
Current Calls : 4  
CallNetwork : Static  
203.88.70.76  
Mac Address: 0002.a407.66cc

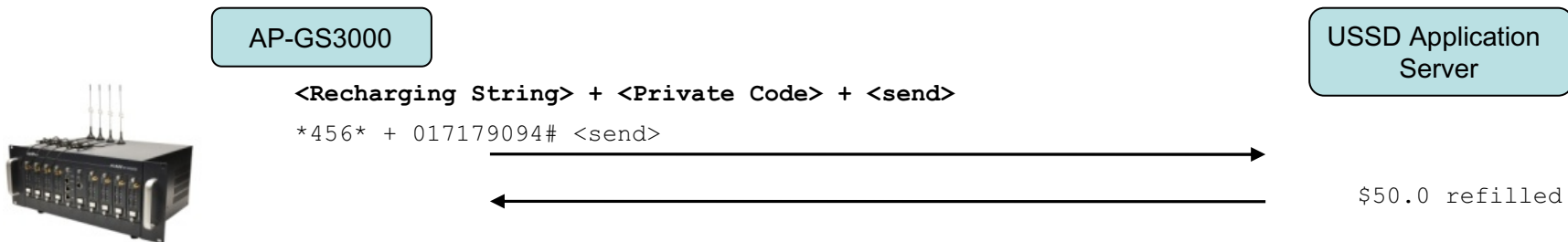
Unread Message:  
P0:0(0)  
P0:1(2)  
P0:2(2)  
P0:3(2)  
P1:0(2)  
P1:1(2)  
P1:2(2)  
P1:3(1)  
P2:0(2)  
P2:1(1)  
P2:2(2)  
P2:3(1)  
P3:0(2)  
P3:1(1)  
P3:2(1)  
P3:3(2)  
P5:0(1)  
P5:1(3)  
P5:2(1)  
P5:3(2)  
P6:0(2)  
P6:1(2)  
P6:2(1)  
P6:3(1)  
P7:0(1)  
P7:1(1)  
P7:2(1)  
P7:3(1)  
P8:0(0)  
P8:1(1)  
P8:2(0)  
P8:3(0)

**Reply Date**  
It shows replied date for USSD.

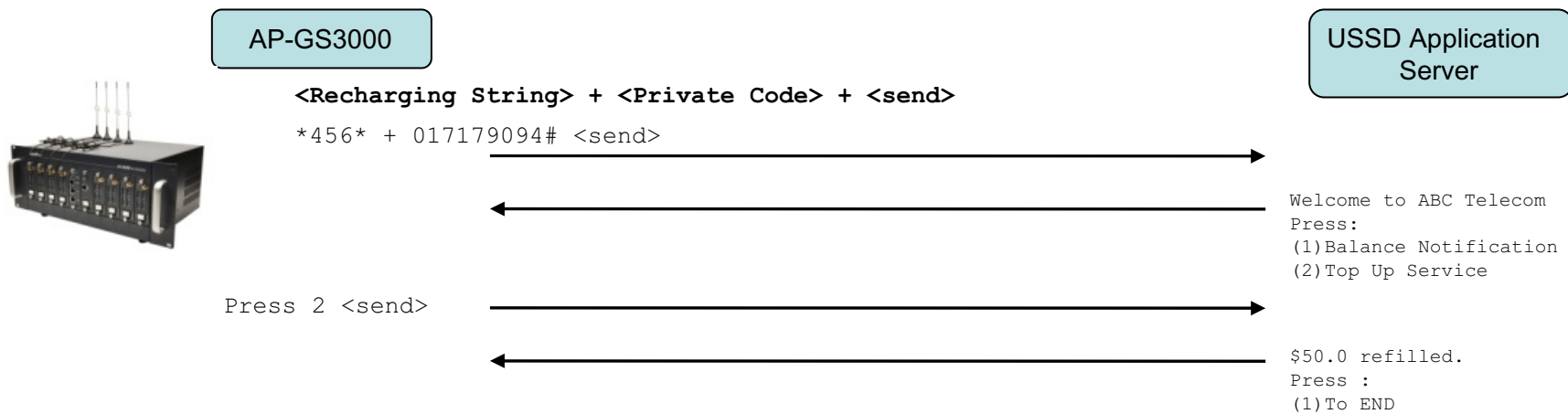


# Prepaid Recharging USSD

## Recharging Checking Service



## Balance Checking Service Type -2



# Prepaid Recharging USSD

Global Recharging USSD String  
 It input Recharging USSD String Code

Date Code  
 It inputs private code for recharging USSD.

Mode  
 It selects Recharging mode.

### GSM USSD

Balance checking USSD String : \*222# Send Send Time : -1 (sec) Save

Recharging USSD string : \*111\*

Set Port Group / Time : 4 (Port Group) 1100 (ms)


Port	Mode	Data Code	USSD Reply	Reply Date
P0:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <span style="float: right;">Send</span>	Please Check GSM Status	2010/09/29 22:00:53
P0:1	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <span style="float: right;">Send</span>	"Balance Tk. 776.18. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:56
P0:2	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <span style="float: right;">Send</span>	"Balance Tk. 0.42. Validity 15/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:56
P0:3	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <span style="float: right;">Send</span>	There is no response. Please try again	2010/09/29 22:02:15
P1:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <span style="float: right;">Send</span>	"Balance Tk. 4500.48. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:58
P1:1	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <span style="float: right;">Send</span>	"Balance Tk. 1308.32. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:01:13
P1:2	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <span style="float: right;">Send</span>	"Balance Tk. 2983.13. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:58
P1:3	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <span style="float: right;">Send</span>	"Balance Tk. 581.19. Validity 24/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:59
P2:0	<input checked="" type="radio"/> Balance <input type="radio"/> Recharging	<input type="text"/> <span style="float: right;">Send</span>	"Balance Tk. 1209.40. Validity 29/09/2011.Enjoy 100 SMS (Robi-Robi) only at TK5. Dial *8444*11# to activate.",15	2010/09/29 22:00:59

#### Information

AddPac Technology  
 Model : GS3000\_G2  
 HW Version : 2.0  
 SW Version : 8.51.001  
 Smart Web Version : 0.4  
 Smart Web Build : Sep 15 2010

Voice Interface  
 G(4) : G(4) : G(4) : G(4) :  
 None : G(4) : G(4) : G(4) : G(4)

Protocol : H.323  
 Status : Unregistered  
 Current Calls : 4  
 CallNetwork : Static  
 203.88.70.76  
 Mac Address: 0002.a407.66cc  
 Unread Message:  
 P0:0(0)  
 P0:1(2)  
 P0:2(2)  
 P0:3(2)  
 P1:0(2)  
 P1:1(2)  
 P1:2(2)  
 P1:3(1)  
 P2:0(2)  
 P2:1(1)  
 P2:2(2)  
 P2:3(1)  
 P3:0(2)  
 P3:1(1)  
 P3:2(1)  
 P3:3(2)  
 P5:0(1)  
 P5:1(3)  
 P5:2(1)  
 P5:3(2)  
 P6:0(2)  
 P6:1(2)  
 P6:2(1)  
 P6:3(1)  
 P7:0(1)  
 P7:1(1)  
 P7:2(1)  
 P7:3(1)  
 P8:0(0)  
 P8:1(1)  
 P8:2(0)  
 P8:3(0)

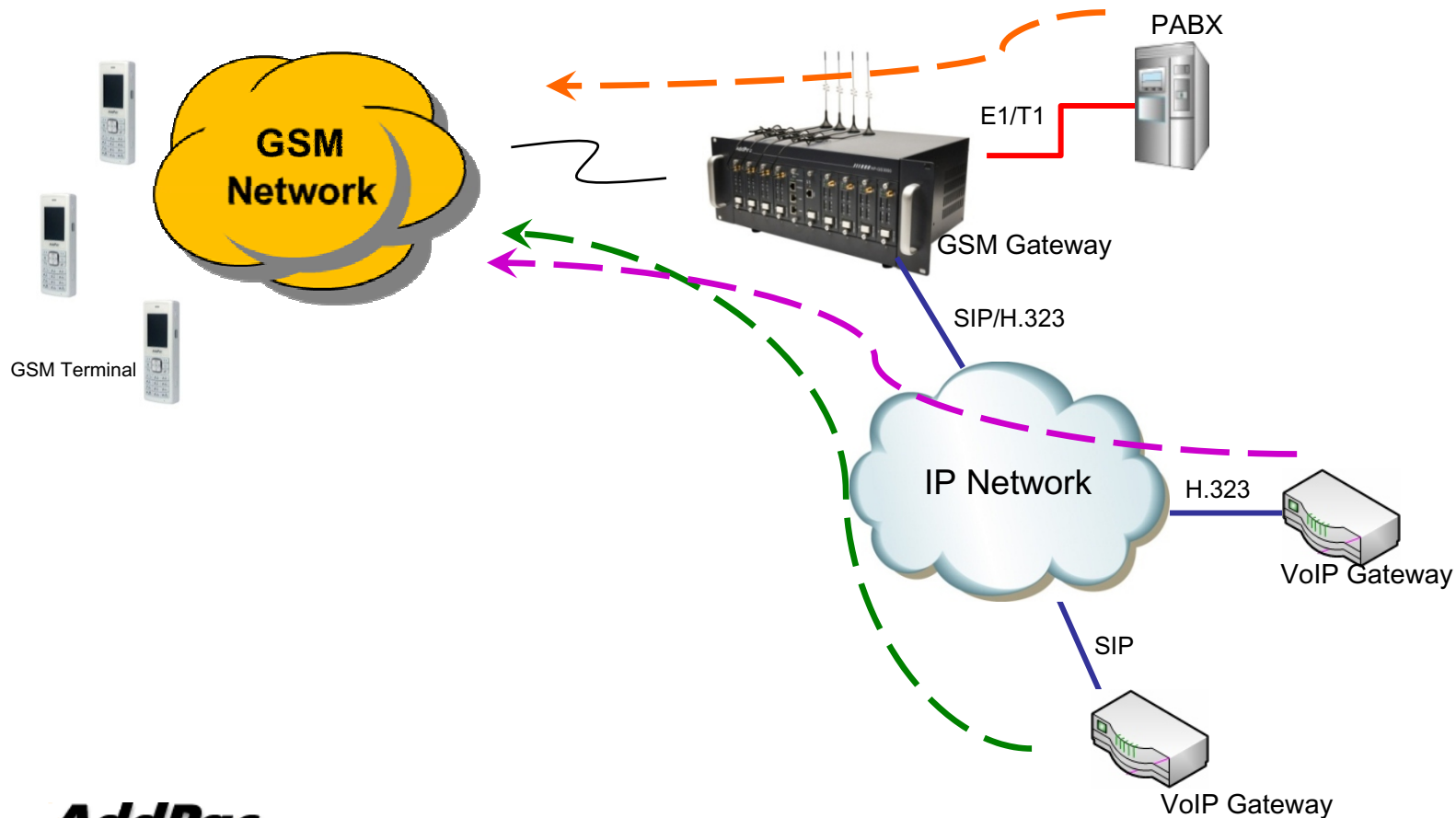


**ASR**(Answer Seizure Ratio) / **ACD**(Average Call Duration)

# ASR

## ASR (Answer Seizure Ratio)

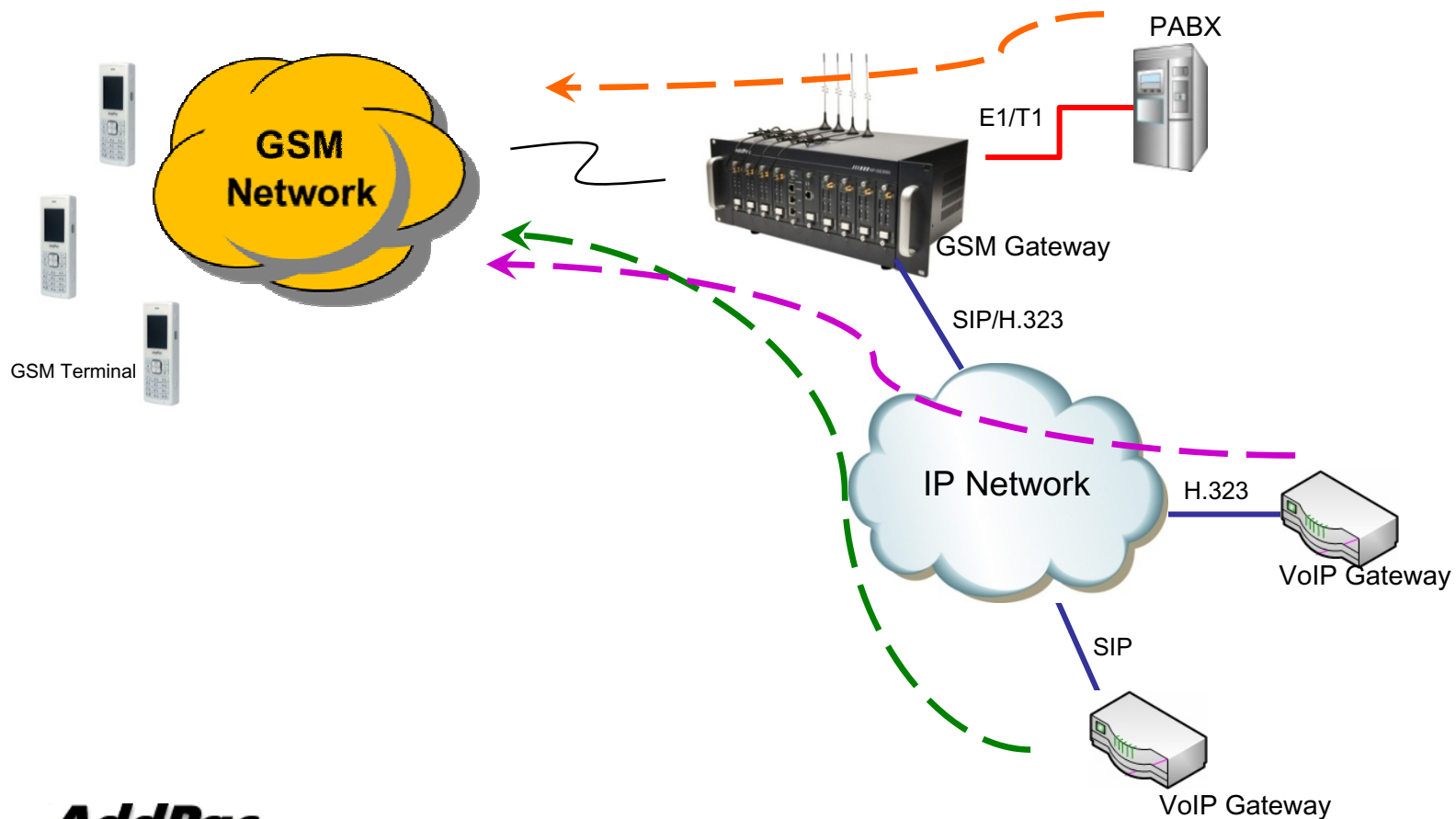
It's calculated by taking the number of successfully answered calls and dividing by the total number of calls about GSM outgoing calls.



# ACD

## ACD (Average Call Duration)

It's a measure based on CDR to determine traffic demand and forecast call volumes about GSM outgoing calls.



# ASR/ACD - WEB

Total GSM Call Statistics  
It shows Total ASR and ACD.

GSM Call Statistics  
It shows GSM Number, Call count of VoIP or FXS or FXO or E1(T1), ASR and ACD.

**Total GSM Call Statistics**

Total	Total Call Count				Total ASR	Total ACD	ALL Clear
	VOIP	FXS	FXO	E1			
GSM	3020	0	0	0	22%	490	Clear

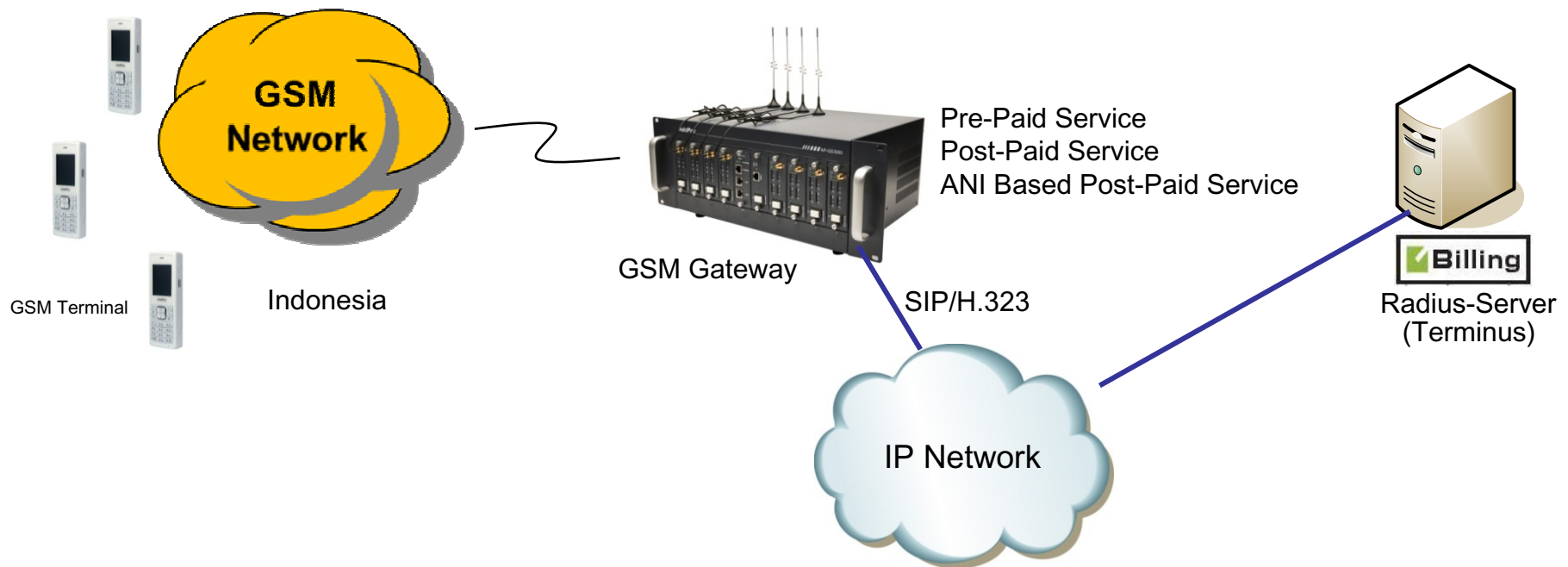
**GSM Call Statistics**

Port	GSM Sim Number	Call Count				ASR	ACD	ALL Clear
		VOIP	FXS	FXO	E1			
P0:0		38	0	0	0	28%	596	Clear
P0:1		111	0	0	0	21%	424	Clear
P0:2		116	0	0	0	8%	654	Clear
P0:3		107	0	0	0	24%	394	Clear
P1:0		107	0	0	0	26%	390	Clear
P1:1		116	0	0	0	29%	295	Clear
P1:2		100	0	0	0	26%	467	Clear
P1:3		102	0	0	0	23%	567	Clear
P2:0		108	0	0	0	20%	533	Clear
P2:1		106	0	0	0	27%	421	Clear
P2:2		116	0	0	0	22%	410	Clear
P2:3		119	0	0	0	21%	400	Clear
P3:0		132	0	0	0	7%	654	Clear
P3:1		105	0	0	0	32%	336	Clear



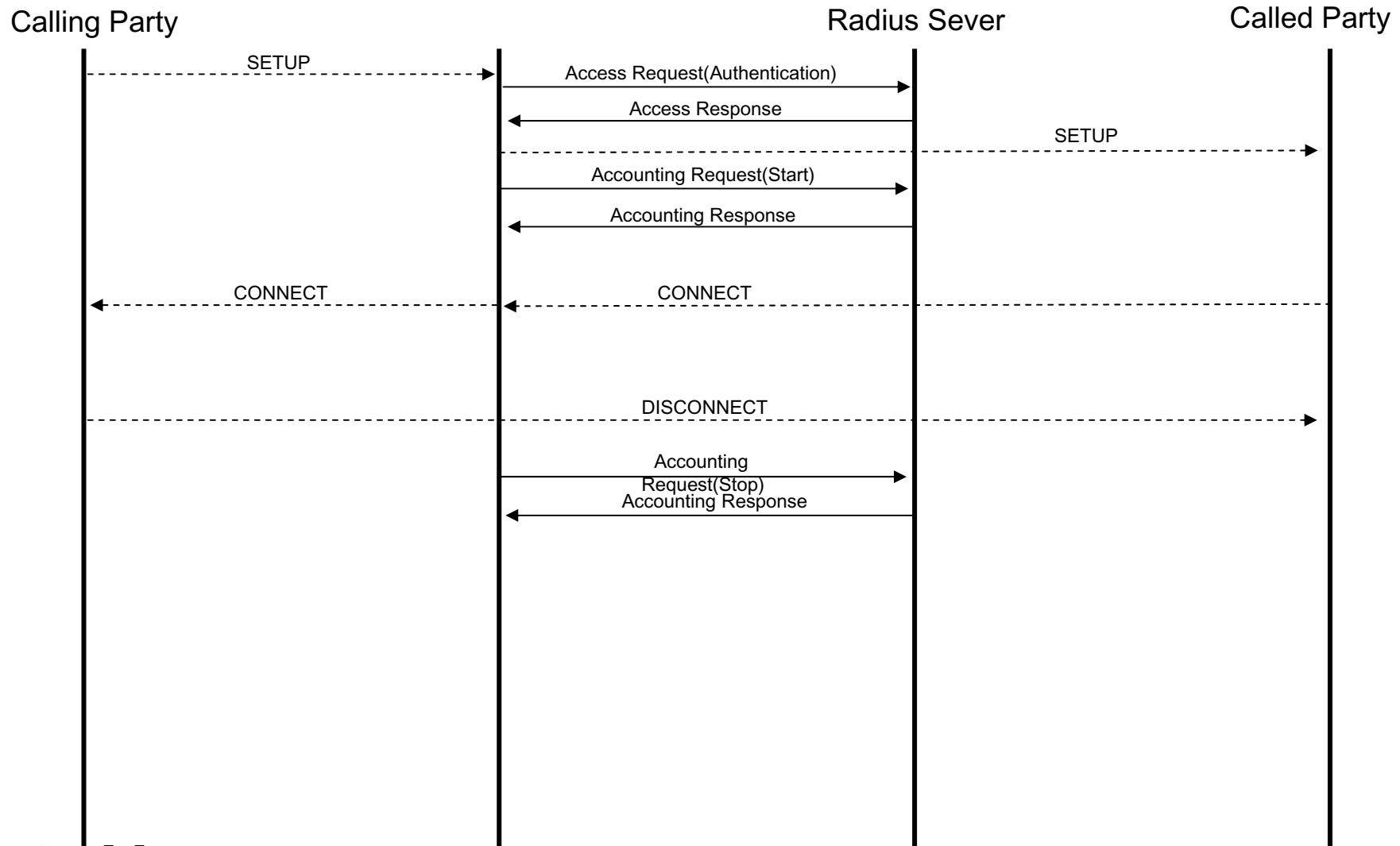
# Radius Protocol for CDR

# CDR Service Network Diagram





# CDR Service Flow Chart



# Radius Setup - WEB

**Smart Web Manager**  
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**System**

- Language

**Radius Setup**

**Use Radius Server**  Yes  No

**Server Setting**

Server IP

Authentication Port  (1-65535)

Accounting Port  (1-65535)

**Authentication**

User Name

Password

Radius Secret Key

Direction  None

**Accounting**

Telephony Type  None  Start-Stop  Stop-Only

VOIP Type  None  Start-Stop  Stop-Only

**Time Out**

Retransmit  3 (default 3, 0-100)

Time Out  5 Sec (default 5, 1-60)

**Information**

AddPac Technology  
Model : GS3000\_G2  
H/W Version : 2.0  
S/W Version : 8.51.001  
Smart Web Version : 0.4  
Smart Web Build : Oct 12 2010

Voice Interface  
G(4) : None : None : None :  
None : S(4)O(4) : None :  
None : G(4)

Protocol : SIP  
Status : Unregistered  
Current Calls : 0  
CallNetwork : Static  
60.196.6.39  
Mac Address: 0002.a4ff.fe30  
Unread Message:  
P0:0(0)  
P0:1(0)  
P0:2(0)  
P0:3(0)  
P8:0(0)  
P8:1(0)  
P8:2(0)  
P8:3(0)

**Description**

**System**

- Server SIP
- Server H.323
- FXO Extension
- GSM Extension
- E1/T1 Extension
- Static Route
- Hot Line
- GSM USSD

**Use Radius Server**  
It shows using status of Radius

**Server Setting**  
It is Radius Server IP and Port setting

**Authentication**  
It configures information of Authentication.

**Accounting**  
It selects accounting type.

**Timeout**  
It shows and change timeout values.

# GSM Gateway Series

# Thank you!

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